

IN THE CLAIMS:

40. (Twice Amended) An illumination arrangement for a stereo microscope, in particular, a Greenough type comprising:

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a least one illumination channel arranged in a plane essentially orthogonal to a plane of the two observation channels, wherein the illumination is effected at an angle to the optical axis of the microscope by means of at least one light conductor so that no direct reflection of illumination light falls into the observation channels and a florescence excitation is effected through the light conductor.

Please add the following new claims:

45. (New) An illumination arrangement for a stereo microscope, in particular, a Greenough type comprising:

a least one illumination channel arranged in a plane essentially orthogonal to a plane of the two observation channels, wherein the illumination is effected at an angle to the optical axis of the microscope by means of at least one light conductor so that substantially no direct reflection of illumination light falls into the observation channels and a fluorescence excitation is effected through the light conductor.

46. (New) An illumination arrangement for a stereo microscope, in particular, a Greenough type comprising:

a least one illumination channel arranged in a plane essentially orthogonal to a plane of the two observation channels, wherein the illumination is effected at an angle to the optical axis of the microscope by at least one light conductor so that substantially no direct reflection of illumination light falls into the observation channels.
